

Abstract of the Disclosure

In the reaction of catalytic gas phase oxidation induced  
by the supply of at least a raw material to be oxidized and  
a molecular oxygen-containing gas to a reactor for catalytic  
5 gas phase oxidation, a method for starting up the reactor  
for catalytic gas phase oxidation is disclosed which is  
characterized by causing the raw material and the molecular  
oxygen-containing gas to pass a range in which the  
concentration of the raw material is less than the lower  
10 explosion limit of the raw material and the concentration  
of oxygen is not less than the limiting oxygen concentration,  
but excluding the concentration of the raw material of 0 vol. %.  
The method enables the reactor to be started up economically  
and safely by avoiding the explosion range induced by the  
15 composition of a raw material and a molecular  
oxygen-containing gas supplied to the reactor and decreasing  
the amount of a diluting gas to be supplied.

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